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MINIMUM DEPTH OF CLEAR WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT

NOMINAL VOLTAGE TO GROUND	CONDITIONS		
	1	2	3
	Minimum clear distance (feet)		
0 - 100	3	3	3
101 - 500	3	3½	4
501 - 2500	3	4	5
2501 - 10000	4	5	6
10001 - 25,000	5	6	8
25,001 - 75 kV	6	8	10
Above 75 kV	8	10	12

NOTES:

Condition 1 - Live parts are exposed on one side of the working space only.
Condition 2 - Live parts are exposed on both sides of the working space, but are all sufficiently guarded by insulating materials.

Condition 3 - Live parts are exposed on one side of the working space and grounded parts are exposed on the other side of the working space. Parts are considered to be grounded if made of metallic, brick, or tile.

Condition 4 - Live parts are exposed on both sides of the working space.

Adapted with permission from Article 110-1 of the National Electrical Code®.
Copyright © 2015, National Fire Protection Association, Quincy, MA. This reference remains valid the complete and official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

Adapted from NFPA® Table 110.2(B)(2) to and 110.2(A)(2).



MINIMUM CLEARANCE OF LIVE PARTS

NOMINAL VOLTAGE RATING in	DEPTH OF WORKING SPACE in		MINIMUM CLEARANCE OF LIVE PARTS in feet			
	FEET/INCH	FEET/INCH	FRONT TO FRONT	FRONT TO REAR	REAR TO REAR	REAR TO REAR
0.4 - 0.15	36	48	7	4.5	8	5.0
2.2	36	75	7	5.5	8	6.0
12.5	110	95	12	7.5	7	6.0
14.4	110	110	12	8.0	7	6.5
25	130	125	15	10.5	10	7.5
24.0	155	150	15	10.5	10	8.5
40	200	200	18	13.0	13	13.0
40	200	-	18	-	13	-
45	250	-	21	-	17	-
45	250	-	21	-	17	-
50	300	-	24	-	20	-
110	350	-	30	-	25	-
138	500	-	35	-	32	-
161	600	-	43	-	40	-
161	600	-	43	-	40	-
230	750	-	50	-	48	-
230	750	-	50	-	48	-
300	900	-	60	-	57	-
300	900	-	60	-	57	-

- The clearance listed above are for high parts and low parts, under the NEC Code "Normal service conditions." Effects there will be considered minimum or other configurations present. The above clearances should be increased. Extra space should always be provided if possible.
- The required minimum voltage is determined by a system's surge protective equipment.

Adapted from NFPA® Table 110.2(B)(2).

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